

LITHOLOGIC LOG

MONITORING WELL No. EWC001

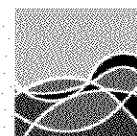
Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

Date Started: 11/2/06
Date Completed: 11/7/06
Northing: 1769705.98
Easting: 6470359.29
Elevation: 52.59 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

Page: 1 of 7

Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
0							7" Concrete	<p>Traffic Rated Well Box</p> <p>Portland Cement w/ 5% Bentonite Grout</p> <p>4" Sch 80 PVC Blank</p>
2						CL	Brown (10YR 4/3), CLAY, moist, hard, plastic, some silt and very fine-grained sand. Note: Concrete and red brick debris.	
4				0.0		ML	Dark yellowish brown (10YR 4/4), SILT, moist, hard, some very fine-grained sand, concrete and red brick debris.	
6						CL	Dark brown (10YR 3/3), CLAY, moist, very stiff, plastic, some silt and very fine-grained sand.	
8				0.0				<p>Traffic Rated Well Box</p> <p>Portland Cement w/ 5% Bentonite Grout</p> <p>4" Sch 80 PVC Blank</p>
10						CL	Dark brown (10YR 3/3), CLAY, moist, very stiff, plastic, some silt and very fine-grained sand.	
12				0.0		ML	Brown (10YR 4/3), SILT, moist, hard, some clay, some very fine-grained sand.	
14								
16				0.0				<p>Traffic Rated Well Box</p> <p>Portland Cement w/ 5% Bentonite Grout</p> <p>4" Sch 80 PVC Blank</p>
18								
20								



AVOCET
 ENVIRONMENTAL, INC.

LITHOLOGIC LOG

MONITORING WELL No. EWC001

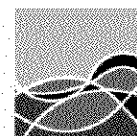
Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

Date Started: 11/2/06
Date Completed: 11/7/06
Northing: 1769705.98
Easting: 6470359.29
Elevation: 52.59 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

Page: 2 of 7

Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details			
22				0.0		ML	Brown (10YR 4/3), SILT, moist, stiff, some very fine-grained sand.				
24				0.0							
26				0.0							
28				0.0							
30				0.0							
32				1.2		CL	Brown (10YR 4/3), SILTY CLAY, moist, very stiff, plastic, little very fine-grained sand.				
34											
36				3.6		ML	Brown (10YR 4/3), SILT, moist, stiff, very slightly plastic, little clay, some very fine-grained sand.				
38				0.0			Dark yellowish brown (10YR 4/4), SANDY SILT, moist, stiff, very fine-grained.				
40											



AVOCET
 ENVIRONMENTAL, INC.

LITHOLOGIC LOG

MONITORING WELL No. EWC001

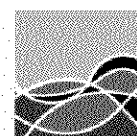
Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

Date Started: 11/2/06
Date Completed: 11/7/06
Northing: 1769705.98
Easting: 6470359.29
Elevation: 52.59 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

Page: 3 of 7

Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
42				0.0		SM	Dark yellowish brown (10YR 4/4), SILTY SAND, moist, firm, poorly graded, very fine-grained, faint oxidation staining in veins.	
44				0.0				
46						SM	Olive brown (2.5Y 4/3), SILTY SAND, very moist, firm, very fine-grained, oxidation staining in veins and nodules.	
48				0.0		SW	Dark yellowish brown (10YR 4/6), GRAVELLY SAND, moist, bimodally graded, fine-grained sand, some fine to medium gravel.	
50				0.0				
52				0.6		CL	Yellowish brown (10YR 5/4), CLAY, moist, firm, plastic, little silt and very fine-grained sand.	
54				1.5		ML	Olive brown (2.5Y 4/3), SILT, moist, stiff, slightly plastic, little to some clay.	
56				1.1		SP	Groundwater encountered approximately 56 feet. Olive brown (2.5Y 4/3), SAND, saturated, poorly graded, very fine-grained, trace to little silt.	
58				4.9				
60								



AVOCET
 ENVIRONMENTAL, INC.

LITHOLOGIC LOG

MONITORING WELL No. EWC001

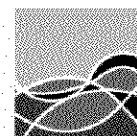
Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

Date Started: 11/2/06
Date Completed: 11/7/06
Northing: 1769705.98
Easting: 6470359.29
Elevation: 52.59 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

Page: 4 of 7

Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details			
62				1.4							
				10.0		ML	Olive brown (2.5Y 4/3), SILT, moist, firm to stiff with very fine-grained sand; dark oxidation staining in veins.				
64				7.6		SP	Olive brown (2.5Y 4/3), SAND with SILT, wet, poorly graded, very fine-grained, trace to little silt, micaceous.				
66				26.3		ML	Olive brown (2.5Y 4/3), SILT, very moist, stiff, little to some very fine-grained sand, faint oxidation staining.				
68				5.0							
70				3.4							
72				1.0							
74				12.8		CL	Olive brown, CLAY, moist, hard, with silt, oxidation staining.				
76						SP	Dark grayish brown (2.5Y 4/2), SAND, saturated, poorly graded, very fine- to fine-grained.				
78				11.7							
80											



AVOCET
 ENVIRONMENTAL, INC.

LITHOLOGIC LOG

MONITORING WELL No. EWC001

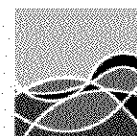
Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

Date Started: 11/2/06
Date Completed: 11/7/06
Northing: 1769705.98
Easting: 6470359.29
Elevation: 52.59 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

Page: 5 of 7

Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
82				1.6		SP	Dark grayish brown (2.5Y 4/2), SAND, saturated, poorly graded, very fine- to fine-grained.	<p>Outer Conductor Casing</p> <p>Bentonite Pellets</p> <p>#39 Blend Sand</p>
				5.3		ML	Olive brown (2.5Y 4/4), SILT, moist, stiff to hard, little very fine-grained sand.	
84				13.0		SP	Olive brown (2.5Y 4/4), SAND, saturated, poorly graded, fine-grained.	
86				18.2		ML	Olive brown (2.5Y 4/3), SILT, moist, stiff, little to some very fine-grained sand, micaceous, oxidation staining in veins. Note: Outer conductor casing set at 87 feet. Install bentonite pellet seal. Continue drilling with inner casing.	
88				13.6		SP	Light olive brown (2.5Y 5/3), SAND, saturated, poorly graded, very fine- to fine-grained.	
90				4.9			Light olive brown (2.5Y 5/3), SAND, saturated, poorly graded, fine-grained, abundant shell fragments.	
92				27.6		SM	Olive brown (2.5Y 4/3), SILTY SAND, wet, poorly graded, very fine-grained, oxidation staining throughout.	
94				15.6		SP	Light olive brown, (2.5Y 5/4), SAND, saturated, poorly graded, fine-grained, abundant shell fragments, oxidation staining.	
96				26.5		CL	Olive brown (2.5Y 4/3), SILTY CLAY, moist, very stiff to hard, oxidation staining in veins.	
98				8.5		SP	Olive yellow, (2.5Y 6/6), SAND, saturated, fine-grained, shelly debris, 50% to 60% shell fragments.	
100							as above, poorly graded, little silt, shell fragments throughout.	
							as above, wet, very fine-grained, little silt, shell fragments and oxidation staining.	



AVOCET
 ENVIRONMENTAL, INC.

LITHOLOGIC LOG

MONITORING WELL No. EWC001

Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

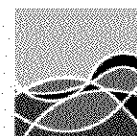
Date Started: 11/2/06
Date Completed: 11/7/06
Northing: 1769705.98
Easting: 6470359.29
Elevation: 52.59 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

Page: 6 of 7

Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
102				25.6				
				1.8		CL	Olive brown (2.5Y 4/3), CLAY, moist, hard, plastic, some shell fragments, few indurated nodules 1/4" to 1/2".	
104						SP	Olive brown (2.5Y 4/3), SAND, saturated, poorly graded, fine-grained, dark oxidation staining at upper contact, shells throughout.	
				42.0		GW	Dark grayish brown (2.5Y 4/2), GRAVEL, saturated, well graded, fine to coarse sub-angular gravel, with sand and shells.	
106				59.6		SP	Olive brown (2.5Y 4/4), SAND, saturated, poorly graded, very fine- to fine-grained, trace silt, no shells.	
108				116.0		SM	Dark grayish brown (2.5Y 5/6), SILTY SAND, saturated, stiff, poorly graded, very fine-grained, micaceous.	
110				97		SP	Light olive brown (2.5Y 5/6), SAND, saturated, poorly graded, fine-grained, faint oxidation staining.	
112				14.5		SM	Dark grayish brown (2.5Y 4/2), SILTY SAND, wet, poorly graded, very fine-grained, little to some silt, micaceous.	
114				17.1				
116				5.4				
118				132		SP	Dark grayish brown (2.5Y 4/2), SAND, saturated, poorly graded, fine-grained.	
120								

4" Sch 80 PVC 0.02" Slot



AVOCET
 ENVIRONMENTAL, INC.

LITHOLOGIC LOG

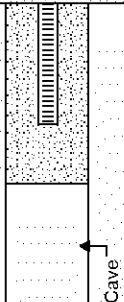
MONITORING WELL No. EWC001

Logged By: Micheal Lewis
Checked By: Micheal Rendina
Driller: Cascade Drilling
Drilling Method: Sonic Drilling
Sampling Method: NA
Sampling Interval: Continuous Core

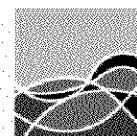
Date Started: 11/2/06
Date Completed: 11/7/06
Northing: 1769705.98
Easting: 6470359.29
Elevation: 52.59 Feet
Boring Depth: 125 Feet

Client: Boeing Realty Corp.
Site: Former C-6 Facility
Location: Los Angeles, California
Project No.: 1155.002

Page: 7 of 7

Depth (ft)	Sample Number	Sample Depth	Blow Count (per foot)	OVM (ppm)	Graphic Log	Soil Classification	Description	Well Completion Details
122				2.7		SM	Dark grayish brown (2.5Y 4/2), SILTY SAND, wet to saturated, poorly graded, very fine-grained, micaceous.	
124				0.0				
126				0.4				
128							<u>Well Detail</u> 0 to 97 4" Sch 80 PVC Blank 97 to 122 4" Sch 80 PVC 0.020 Slot 0 to 2.5 Concrete with Traffic Rated Well Box 2.5 to 90 Portland Cement w/ 5% Bentonite Grout 90 to 94 Bentonite Pellets 94 to 123 #39 Blend Sand	
130								
132								
134								
136								
138								
140								

Notes: Boring total depth 125 feet. Groundwater encountered at approximately 56 feet. Boring completed as a groundwater monitoring well.



AVOCET
 ENVIRONMENTAL, INC.